



## Spartan Chemical Company, Inc. Material Safety Data Sheet

### SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):

**HIGH FRONTIER**

Product Number: 4012

Product Division:

**Janitorial**

Spartan Chemical Company, Inc.  
1110 Spartan Drive  
Maumee OH 43537

Product/Technical Information: 1-(800)-537-8990

Medical Emergency: 1-(888)-314-6171 (24 hours)

Chemical Leak/Spill Emergency: CHEMTREC 1-(800) 424-9300 (24 hours)

Shipping Description: Non-Hazardous Products

| NFPA Ratings:                                                                          | HMIS Ratings:                                                                                                                                           |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Health:</b> 1- Slight<br><b>Fire:</b> 0 - Minimal<br><b>Reactivity:</b> 0 - Minimal | <b>Health:</b> *1 - Slight; Chronic Hazard<br><b>Fire:</b> 0 - Minimal<br><b>Reactivity:</b> 0 - Minimal<br><b>Pers. Prot. Equip.:</b> See Section VIII |

### SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

| Chemical Name(s)               | %Wt   | CAS Registry No. | Table Z-1-A           |                        |                           | NTP, IARC or OSHA Carcinogen |
|--------------------------------|-------|------------------|-----------------------|------------------------|---------------------------|------------------------------|
|                                |       |                  | TWA mg/m <sup>3</sup> | STEL mg/m <sup>3</sup> | CEILING mg/m <sup>3</sup> |                              |
| Acrylic polymer                | 10-15 | 25987-66-0       | Not Established       | Not Established        | Not Established           | No                           |
| *Diethylene glycol ethyl ether | 1-5   | 111-90-0         | 140 (AIHA)            | Not Established        | Not Established           | No                           |
| Tributoxyethyl phosphate       | 1-5   | 78-51-3          | Not Established       | Not Established        | Not Established           | No                           |
| Polyethylene polymer           | 1-5   | 68441-17-8       | Not Established       | Not Established        | Not Established           | No                           |
| Polypropylene polymer          | 1-5   | 25722-45-6       | Not Established       | Not Established        | Not Established           | No                           |
| Propylene glycol               | 1-5   | 1336-21-6        | Not Established       | Not Established        | Not Established           | No                           |

Comment: \*This substance is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (SARA) and of 40 CFR 372.

### SECTION III: PHYSICAL DATA

|                                                              |                                             |
|--------------------------------------------------------------|---------------------------------------------|
| Boiling Point: 210 °F                                        | Vapor Pressure: Unknown                     |
| Vapor Density (AIR = 1): Unknown                             | Solubility in Water: Complete               |
| pH: 8.6-8.8                                                  | Specific Gravity (H <sub>2</sub> O=1): 1.02 |
| Evaporation Rate (but.ace.=1): <1                            | Percent Solid by Weight: 19-21              |
| Physical State: Liquid                                       |                                             |
| Appearance & Odor: Translucent emulsion, slight ammonia odor |                                             |

### SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

|                                                                                                                                                                  |                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Flash Point: > 210 °F                                                                                                                                            | Method Used: ASTM-D56 |
| Flammable Limits: N/A                                                                                                                                            | Flame Extension: N/A  |
| Extinguishing Media: Product does not support combustion. Use extinguishing media appropriate for surrounding fire.                                              |                       |
| Special Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray. |                       |
| Unusual Fire & Explosive Hazards: Dried Product can burn. Combustion products are toxic.                                                                         |                       |

**SECTION V: HEALTH HAZARD DATA**

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |                                |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------|
| Threshold Limit Value:        | Not Established                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Primary Routes of Entry: | Inhalation, Skin Contact, Eyes |
| Effects of Overexposure:      | <b>Causes mild eye irritation</b> : Symptoms may include pain, redness, swelling and tearing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                                |
| Conditions to Avoid:          | <b>May cause skin irritation</b> : Symptoms may include redness, pain and swelling.<br><b>Harmful if swallowed</b> : Symptoms may include nausea, vomiting, pain and diarrhea.<br><b>Inhalation of vapors may cause respiratory irritation , headache and nausea</b> .<br>Contains diethylene glycol ethyl ether which may be absorbed if swallowed causing central nervous system depression, liver and kidney impairment. Contains tributoxyethyl phosphate which may cause nervous system effects such as ataxia, breathing abnormalities and tremors with prolonged or repeated contact. No chronic health effects are expected from the intended use of this product.<br><b>Avoid contact with eyes, skin, or clothing. Avoid breathing product vapors or mists. Use with adequate ventilation. Do not taste or swallow. Wash thoroughly after handling.</b> |                          |                                |
| Conditions Aggravated by Use: | Use of this product may aggravate preexisting eye; skin and respiratory disorders such as asthma and dermatitis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                                |

**Emergency & First Aid Procedures :**

|             |                                                                                                                                                                  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes:       | Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. Get medical attention.                                                           |
| Skin:       | Remove contaminated clothing. Flush skin thoroughly with plenty of water. Get medical attention if irritation persists. Wash contaminated clothing before reuse. |
| Ingestion:  | Do not induce vomiting. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.      |
| Inhalation: | Move person to fresh air. If irritation persists get medical attention.                                                                                          |

**SECTION VI: REACTIVITY DATA**

|                                   |            |                           |                |
|-----------------------------------|------------|---------------------------|----------------|
| Stability:                        | Stable     | Incompatible Materials:   | None known     |
| Hazardous Decomposition Products: | None known | Hazardous Polymerization: | Will Not Occur |

**SECTION VII: SPILL OR LEAK PROCEDURES**

|                                                            |                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Steps to be Taken in Case Material is Released or Spilled: | Small spills of one gallon or less may be flushed with plenty of water to sanitary sewer system (If permitted by local sewer regulations). Dike and contain large spills with inert material and transfer liquid to containers for disposal. Keep spill out of storm sewers and waterways. |
| Waste Disposal Method:                                     | Dispose of in compliance with all federal, state and local laws and regulations.                                                                                                                                                                                                           |

**SECTION VIII: SPECIAL PROTECTION INFORMATION**

|                                  |                                                                                                                                                                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory Protection:          | Not normally required when good general ventilation is provided. However, if exposure levels are exceeded (see Section II) or if respiratory irritation occurs, a NIOSH approved respirator suitable for the use-conditions and chemicals listed in Section II should be considered. |
| Ventilation:                     | Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.                                                                                                                                                                                    |
| Protective Gloves(Specify Type): | Rubber or other impervious gloves are recommended.                                                                                                                                                                                                                                   |
| Eye Protection(Specify Type):    | Splash goggles are recommended to prevent eye contact.                                                                                                                                                                                                                               |
| Other Protective Equipment:      | See 29 CFR 1910.132-138 for further guidance.                                                                                                                                                                                                                                        |

**SECTION IX: SPECIAL PRECAUTIONS**

|                                  |                                |
|----------------------------------|--------------------------------|
| Precautions; Handling & Storing: | Keep from freezing.            |
| Other Precautions:               | Keep out of reach of children. |

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**HIGH FRONTIER**

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